

**INPUT SET: S28287.raw**

**This Raw Listing contains the General Information Section and up to the first 5 pages.**

## **SEQUENCE LISTING**

**ENTERED**

2  
3 (1) General Information:  
4  
5 (i) APPLICANT: Brigstock, David R.  
6 Harding, Paul H.  
7  
8 (ii) TITLE OF INVENTION: HEPARIN BINDING GROWTH FACTOR (HBGF)  
9 POLYPEPTIDES  
10  
11 (iii) NUMBER OF SEQUENCES: 22  
12  
13 (iv) CORRESPONDENCE ADDRESS:  
14 (A) ADDRESSEE: Fish & Richardson P.C.  
15 (B) STREET: 4225 Executive Square, Suite 1400  
16 (C) CITY: La Jolla  
17 (D) STATE: CA  
18 (E) COUNTRY: USA  
19 (F) ZIP: 92037  
20  
21 (v) COMPUTER READABLE FORM:  
22 (A) MEDIUM TYPE: Diskette  
23 (B) COMPUTER: IBM Compatible  
24 (C) OPERATING SYSTEM: Windows 95  
25 (D) SOFTWARE: FastSEQ for Windows Version 2.0b  
26  
27 (vi) CURRENT APPLICATION DATA:  
28 (A) APPLICATION NUMBER:  
29 (B) FILING DATE:  
30  
31 (vii) PRIOR APPLICATION DATA:  
32 (A) APPLICATION NUMBER: 08/908,526  
33 (B) FILING DATE: 07-AUG-1997  
34  
35  
36 (viii) ATTORNEY/AGENT INFORMATION:  
37 (A) NAME: Haile, Lisa A., Ph.D.  
38 (B) REGISTRATION NUMBER: 38,347  
39 (C) REFERENCE/DOCKET NUMBER: 08766/003001  
40  
41 (ix) TELECOMMUNICATION INFORMATION:  
42 (A) TELEPHONE: 619/678-5070  
43 (B) TELEFAX: 619/678-5099  
44  
45  
46 (2) INFORMATION FOR SEQ ID NO:1:

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47  
48       (i) SEQUENCE CHARACTERISTICS:  
49        (A) LENGTH: 16 amino acids  
50        (B) TYPE: amino acid  
51        (D) TOPOLOGY: linear  
52  
53       (ii) MOLECULE TYPE: peptide  
54  
55       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
56  
57       Glu Glu Asn Ile Lys Lys Gly Lys Lys Xaa Ile Arg Thr Pro Lys Ile  
58        1                   5                   10                   15  
59  
60  
61       (2) INFORMATION FOR SEQ ID NO:2:  
62  
63       (i) SEQUENCE CHARACTERISTICS:  
64        (A) LENGTH: 12 amino acids  
65        (B) TYPE: amino acid  
66        (D) TOPOLOGY: linear  
67  
68       (ii) MOLECULE TYPE: peptide  
69  
70       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:  
71  
72       Glu Asn Ile Lys Lys Gly Lys Lys Xaa Ile Arg Thr  
73        1                   5                   10  
74  
75  
76       (2) INFORMATION FOR SEQ ID NO:3:  
77  
78       (i) SEQUENCE CHARACTERISTICS:  
79        (A) LENGTH: 41 base pairs  
80        (B) TYPE: nucleic acid  
81        (C) STRANDEDNESS: single  
82        (D) TOPOLOGY: linear  
83  
84       (ii) MOLECULE TYPE: oligonucleotide  
85  
86       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:  
87  
88       GCCGTCTAGA GCGGCCGCAT GGAAGAGAAC ATTAAGAAGG G           41  
89  
90  
91       (2) INFORMATION FOR SEQ ID NO:4:  
92  
93       (i) SEQUENCE CHARACTERISTICS:  
94        (A) LENGTH: 30 base pairs  
95        (B) TYPE: nucleic acid  
96        (C) STRANDEDNESS: single  
97        (D) TOPOLOGY: linear  
98  
99       (ii) MOLECULE TYPE: oligonucleotide

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100  
101 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:  
102  
103 CCTCTGTACC GTACTTAAGC GCCGGCGACC  
104  
105 (2) INFORMATION FOR SEQ ID NO:5:  
106  
107 (i) SEQUENCE CHARACTERISTICS:  
108 (A) LENGTH: 14 amino acids  
109 (B) TYPE: amino acid  
110 (D) TOPOLOGY: linear  
111  
112 (ii) MOLECULE TYPE: peptide  
113  
114 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:  
115  
116 Glu Glu Asn Ile Lys Lys Gly Lys Lys Cys Ile Arg Thr Pro  
117 1 5 10  
118  
119 (2) INFORMATION FOR SEQ ID NO:6:  
120  
121 (i) SEQUENCE CHARACTERISTICS:  
122 (A) LENGTH: 9 amino acids  
123 (B) TYPE: amino acid  
124 (D) TOPOLOGY: linear  
125  
126 (ii) MOLECULE TYPE: peptide  
127  
128 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:  
129  
130 Glu Glu Asn Ile Lys Lys Gly Lys Lys  
131 1 5  
132  
133 (2) INFORMATION FOR SEQ ID NO:7:  
134  
135 (i) SEQUENCE CHARACTERISTICS:  
136 (A) LENGTH: 16 amino acids  
137 (B) TYPE: amino acid  
138 (D) TOPOLOGY: linear  
139  
140 (ii) MOLECULE TYPE: peptide  
141  
142 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:  
143  
144 Ile Arg Thr Pro Lys Ile Ser Lys Pro Ile Lys Phe Glu Leu Ser Gly  
145 1 5 10 15  
146  
147  
148 (2) INFORMATION FOR SEQ ID NO:8:  
149  
150 (i) SEQUENCE CHARACTERISTICS:  
151 (A) LENGTH: 17 amino acids  
152 (B) TYPE: amino acid

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153                   (D) TOPOLOGY: linear  
154  
155                   (ii) MOLECULE TYPE: peptide  
156  
157                   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:  
158  
159        Thr Pro Lys Ile Ser Lys Pro Ile Lys Phe Glu Leu Ser Gly Cys Thr  
160        1                   5                   10                   15  
161        Ser  
162  
163  
164                   (2) INFORMATION FOR SEQ ID NO:9:  
165  
166                   (i) SEQUENCE CHARACTERISTICS:  
167                    (A) LENGTH: 10 amino acids  
168                    (B) TYPE: amino acid  
169                    (D) TOPOLOGY: linear  
170  
171                   (ii) MOLECULE TYPE: peptide  
172  
173                   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:  
174  
175        Thr Ser Met Lys Thr Tyr Arg Ala Lys Phe  
176        1                   5                   10  
177  
178                   (2) INFORMATION FOR SEQ ID NO:10:  
179  
180                   (i) SEQUENCE CHARACTERISTICS:  
181                    (A) LENGTH: 13 amino acids  
182                    (B) TYPE: amino acid  
183                    (D) TOPOLOGY: linear  
184  
185                   (ii) MOLECULE TYPE: peptide  
186  
187                   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:  
188  
189        Thr Ser Met Lys Thr Tyr Arg Ala Lys Phe Cys Gly Val  
190        1                   5                   10  
191  
192                   (2) INFORMATION FOR SEQ ID NO:11:  
193  
194                   (i) SEQUENCE CHARACTERISTICS:  
195                    (A) LENGTH: 7 amino acids  
196                    (B) TYPE: amino acid  
197                    (D) TOPOLOGY: linear  
198  
199                   (ii) MOLECULE TYPE: peptide  
200  
201                   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:  
202  
203        Gly Val Cys Thr Asp Gly Arg  
204        1                   5  
205

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206  
207       (2) INFORMATION FOR SEQ ID NO:12:  
208

209       (i) SEQUENCE CHARACTERISTICS:  
210           (A) LENGTH: 8 amino acids  
211           (B) TYPE: amino acid  
212           (D) TOPOLOGY: linear

213       (ii) MOLECULE TYPE: peptide

214       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

215       Gly Val Cys Thr Asp Gly Arg Ser  
216           1                           5

217  
218       (2) INFORMATION FOR SEQ ID NO:13:  
219

220       (i) SEQUENCE CHARACTERISTICS:  
221           (A) LENGTH: 14 amino acids  
222           (B) TYPE: amino acid  
223           (D) TOPOLOGY: linear

224       (ii) MOLECULE TYPE: peptide

225       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

226       Cys Thr Pro His Arg Thr Thr Thr Leu Pro Val Glu Phe Lys  
227           1                           5                           10

228  
229       (2) INFORMATION FOR SEQ ID NO:14:  
230

231       (i) SEQUENCE CHARACTERISTICS:  
232           (A) LENGTH: 13 amino acids  
233           (B) TYPE: amino acid  
234           (D) TOPOLOGY: linear

235       (ii) MOLECULE TYPE: peptide

236       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

237       Thr Pro His Arg Thr Thr Thr Leu Pro Val Glu Phe Lys  
238           1                           5                           10

239       (2) INFORMATION FOR SEQ ID NO:15:  
240

241       (i) SEQUENCE CHARACTERISTICS:  
242           (A) LENGTH: 18 amino acids  
243           (B) TYPE: amino acid  
244           (D) TOPOLOGY: linear

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**SEQUENCE VERIFICATION REPORT  
PATENT APPLICATION US/09/113,924**

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Original Text